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DECUS NO.	8-500
TITLE	DUMP8
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SOURCE LANGUAGE	PAL-8

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DUMP8

DECUS Program Library Write-up

DECUS NO. 8-500

1. ABSTRACT

This program provides an octal dump of one or more 256 word PS8 blocks. It is device independant on both input and output by interaction with the PS8 system. The command decoder is called for I/O specification.

2. REQUIREMENTS

2.1 DUMP8 will run on any system capable of supporting PS8.

2.2 Program Storage
DUMP8 loads into locations 2000-2777 Field 1

When operated the following locations are also used:

Field 0	Field 1
0-1777	0-1777
3000-6777	

2.2.1 The starting address of DUMP8 is 12000 and the job status should be 6003.

3. LOADING AND SAVING

3.1 The binary is loaded into core using the ABSLDR.

3.2 The program is then saved using the keyboard monitor.

3.3 Example of loading and saving DUMP8:

```
. R ABSLDR)
* PTR:$
. SAVE SYS DUMP8;12000=6003
```

NOTE: Underlined text is typed by the PS8 system. The $ is echoed in response to an altmode termination.

4. STARTING PROCEDURE

4.1 Start the program in the normal fashion using the keyboard monitor.

5. OPERATING PROCEDURE

5.1 Specify an output device or file to the command decoder. Only one output file will be used.

5.2 Input may be specified by file name or block number.

5.2.1 If a file name is specified all blocks of that file will be dumped regardless of where they may reside on the device. (The printout will indicate which PS8 blocks are used).

5.2.2 To select a specific block to dump, specify the input device in the normal manner and use the =N option where N is the PS8 block number to be dumped.

5.2.3 If N (see 5.2.2) is greater than 4 digits, those digits above the fourth are taken to be number of blocks to dump.

i.e.:

* LPT:←DTA1: = 30500

will dump blocks 500,501,502 from dectape 1 with the printout on the line printer.

5.2.4 Only one input file will be used.

6. GENERAL

6.1 Altmode termination will cause return to the keyboard monitor, CR termination will cause the command decoder to be recalled for more I/O specification.

6.2 One input and one output file must be specified.

7. PROGRAM OPERATION

The program, when started, locks the USR in core and calls the command decoder. The input handler is brought into locations 3000-3377 field 0, the output handler into 3400-3777 field 0.

The input handler is used to bring the block to be dumped into locations 0-377 field 0, overlaying the command decoder.

The program packs the header and the octal dump into an output buffer area from 4000-6777 field 0.

The output handler is then used to write the buffer onto the selected device.

8. SAMPLE USAGE

```
. R DUMP8
* TTY:←SYS:=1
```

The program output produced is shown on the next page.

OCTAL DUMP OF PS8 BLOCK 0001. ADDRESSES WITHIN THE BLOCK ARE INDICATED WITH ASTERISKS.

0000	7767	0070	0000	1442	7777	0102	2314	0422
0010	2326	5370	7773	0504	1124	0000	2326	0442
0020	7767	2001	1470	0000	2326	0442	7762	2011
0030	2000	0000	2326	0442	7767	0425	1520	7000
0040	2326	0000	7775	0000	7760	0425	1520	7000
0050	2001	0000	7755	0425	1520	7000	0216	0000
0060	7775	0000	7607	7401	7201	0125	7250	2025
0070	7746	7361	0017	7643	1732	7700	2053	2051
0100	2050	5000	7001	7260	7620	0000	0000	0000
0110	0000	0000	0000	0000	0232	7070	1773	7640
0120	5601	1357	7041	3305	1360	3303	1304	3237
0130	5601	7317	0361	3301	6034	1362	7650	6031
0140	5227	6213	5763	6214	1364	3277	1306	7640
0150	5323	6201	2237	5237	5274	5271	1301	7106
0160	7006	0365	1702	3702	1301	7112	7012	7010
0170	0365	1703	3703	1304	3237	2303	2305	5276
0200	1366	4772	5277	4201	5276	1303	3302	2303
0210	1301	3703	2215	6213	5615	7761	6176	6200
0220	5237	7200	0000	7320	6214	1364	3321	6211
0230	1767	0370	1371	3301	1701	6213	5707	6202
0240	4141	7434	3307	6214	1364	3341	6201	1756
0250	6211	7650	7001	4343	1307	6213	5725	7140
0260	3354	6201	7344	0755	1354	3755	6211	5743
0270	0001	7746	0162	1000	5600	0377	7575	7667
0300	6203	7400	5000	7600	0017	7757	7250	6745
0310	0017	0032	0017	0071	7250	6745	0017	0032
0320	0017	0071	0017	0032	0017	0071	0017	0032
0330	0017	0071	0017	0032	0017	0071	0017	0071
0340	0017	0071	0017	0071	0017	0071	0017	0071
0350	0017	0071	0017	0071	0017	0071	0017	0071
0360	0017	0071	0017	0071	0017	0071	0017	0071
0370	0017	0071	0017	0071	0017	0071	0017	0071
